

Continuous action air fresheners Full Analysis Results

Chemical: HHCB

Product/Article: Continuous action air fresheners

Use Environment: Residence - Bathroom

Scenario Description/Notes: Not provided

Continuous action air fresheners: Combined Analysis Results

Receptor	Inhalation		Ingestion		Dermal		Total	
	Acute Dose Rate (mg/kg/d)	Chronic Average Daily Dose (mg/kg/d)	Acute Dose Rate (mg/kg/d)	Chronic Average Daily Dose (mg/kg/d)	Acute Dose Rate (mg/kg/d)	Chronic Average Daily Dose (mg/kg/d)	Acute Dose Rate (mg/kg/d)	Chronic Average Daily Dose (mg/kg/d)
Lifetime_LADD	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
Adult	1.92E-04	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	1.99E-04
Youth2	2.08E-04	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	2.16E-04
Youth1	2.84E-04	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	2.95E-04
Child2	4.30E-04	4.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04	4.46E-04
Child1	7.35E-04	7.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-04	7.62E-04
Infant2	1.18E-03	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	1.23E-03
Infant1	1.22E-03	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	1.27E-03

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Continuous action air fresheners: Inhalation Results

Chronic Inhalation Results:

Receptor	Background Chronic Dose (mg/kg/d)	Chronic Dose (mg/day)	Chronic ADD (mg/kg/d)	Chronic ADC Zone 1 (mg/m3)	Chronic ADC Zone 2 (mg/m3)
Adult	0.00E+00	1.59E-02	1.99E-04	8.95E-04	0.00E+00
Youth2	0.00E+00	1.55E-02	2.16E-04	8.95E-04	0.00E+00
Youth1	0.00E+00	1.68E-02	2.95E-04	8.95E-04	0.00E+00
Child2	0.00E+00	1.42E-02	4.46E-04	8.95E-04	0.00E+00
Child1	0.00E+00	1.42E-02	7.62E-04	8.95E-04	0.00E+00
Infant2	0.00E+00	1.55E-02	1.23E-03	8.95E-04	0.00E+00
Infant1	0.00E+00	9.88E-03	1.27E-03	8.95E-04	0.00E+00

Time to background concentration- chronic (hr):

Acute Inhalation Results:

Receptor	Background ADR (mg/kg/d)	Peak Dose (mg/day)	ADR (mg/kg/d)	Peak Concentration (mg/m3)
Adult	0.00E+00	1.53E-02	1.92E-04	8.95E-04
Youth2	0.00E+00	1.49E-02	2.08E-04	8.95E-04
Youth1	0.00E+00	1.61E-02	2.84E-04	8.95E-04
Child2	0.00E+00	1.37E-02	4.30E-04	8.95E-04
Child1	0.00E+00	1.37E-02	7.35E-04	8.95E-04
Infant2	0.00E+00	1.49E-02	1.18E-03	8.95E-04
Infant1	0.00E+00	9.52E-03	1.22E-03	8.95E-04

Time to background concentration- acute (hr):

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Continuous action air fresheners: Ingestion Results

Chronic Ingestion Results:

Receptor	Chronic ADD (mg/kg/d)
Adult	0.00E+00
Youth2	0.00E+00
Youth1	0.00E+00
Child2	0.00E+00
Child1	0.00E+00
Infant2	0.00E+00
Infant1	0.00E+00

Acute Ingestion Results:

Receptor	ADR (mg/kg/d)
Adult	0.00E+00
Youth2	0.00E+00
Youth1	0.00E+00
Child2	0.00E+00
Child1	0.00E+00
Infant2	0.00E+00
Infant1	0.00E+00

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Continuous action air fresheners: Dermal Results

Chronic Dermal Results:

Receptor	Applied to Skin Chronic ADD (mg/kg/d)	Skin Contact Chronic ADD (mg/kg/d)	Vapor to Skin Chronic ADD (mg/kg/d)	Total Chronic Dermal ADD (mg/kg/d)
Adult	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Youth2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Youth1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Child2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Child1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Infant2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Infant1	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Acute Dermal Results:

Receptor	Applied to Skin ADR (mg/kg/d)	Skin Contact ADR (mg/kg/d)	Vapor to Skin ADR (mg/kg/d)	Total Acute Dermal ADR (mg/kg/d)
Adult	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Youth2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Youth1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Child2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Child1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Infant2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Infant1	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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CEM Scenario Summary

Scenario Name and Definition

Scenario: Continuous action air fresheners

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Scenario Description/notes:

Models

Models for the Selected Product or Article: E5: Emission from Product Placed in Environment
P_INH1: Calculation of Inhalation Dose from Product Usage

Additional Product Options

Product Users: ☒ Adult ☒ Youth ☒ Child

Activity Pattern: ☒ SAH ☐ Part-time ☐ Full-time

Use a User Defined Emission Rate? ☒ Let CEM Define Emission Rate ☐ Use a User-Defined Emission Rate

Dermal Absorption or Permeability? ☐ Absorption Fraction Method ☐ Permeability Method

Use Near Field Zone? ☐ Do Not Use Near Field in Zone 1 ☐ Use Near Field in Zone 1

Inputs

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Location	Required Input	Value
1. Scenario	Background Air Concentration (mg/m3)	0.00E+00
1. Scenario	Weight Fraction of Chemical (-)	1.00E-02
2. Inputs; a. Chemical Properties	Molecular Weight (g/mol)	2.58E+02
2. Inputs; a. Chemical Properties	Saturation Concentration in Air (mg/m3)	7.55E+00
2. Inputs; a. Chemical Properties	Vapor Pressure (torr)	5.45E-04
2. Inputs; b. Product/Article Properties	Duration of Use - Acute (min)	1.44E+03
2. Inputs; b. Product/Article Properties	Duration of Use - Chronic (min)	1.44E+03
2. Inputs; b. Product/Article Properties	Frequency of Use - Acute (events/day)	1.00E+00
2. Inputs; b. Product/Article Properties	Frequency of Use - Chronic (events/year)	3.65E+02
2. Inputs; b. Product/Article Properties	Mass of product used - acute (g/use)	6.60E+00
2. Inputs; b. Product/Article Properties	Mass of product used - chronic (g/use)	6.60E+00
2. Inputs; c. Environment Inputs	Air Exchange Rate, Zone 1 (per hour)	4.50E-01
2. Inputs; c. Environment Inputs	Air Exchange Rate, Zone 2 (per hour)	4.50E-01
2. Inputs; c. Environment Inputs	Building Volume (m3)	4.92E+02
2. Inputs; c. Environment Inputs	Interzone Ventilation Rate (m3/hr)	1.07E+02
2. Inputs; c. Environment Inputs	Use Environment Volume (m3)	1.50E+01

Exposure Factors				
Receptor	Body Weight	Inhalation After Use	Inhalation During Use	Surface Area to Body Weight
Adult (≥21 years)	80	0.61	0.74	
Youth (16-20 years)	71.6	0.68	0.72	
Youth (11-15 years)	56.8	0.63	0.78	
Child (6-10 years)	31.8	0.5	0.66	
Small Child (3-5 years)	18.6	0.42	0.66	
Infant (1-2 years)	12.6	0.35	0.72	
Infant (<1 year)	7.8	0.23	0.46	

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Notes: body weight = kg; dust ingestion rate = mg/day; inhalation rate after use = m3/hr; inhalation rate during use = m3/hr; surface area to body weight ratio = m2/kg; transfer coefficient = cm2/hr

Receptor	Exposure Duration - Chronic	Exposure Duration - Acute	Avg Time - Chronic	Avg Time - Acute
Adult (≥21 years)	1	1	1	1
Youth (16-20 years)	1	1	1	1
Youth (11-15 years)	1	1	1	1
Child (6-10 years)	1	1	1	1
Small Child (3-5 years)	1	1	1	1
Infant (1-2 years)	1	1	1	1
Infant (<1 year)	1	1	1	1

Notes: averaging time - chronic = years; averaging time - acute = days; exposure duration - chronic = years; averaging time - acute = days